EXECUTIVE SUMMARY

**CUSTOMER NAME:** BMF Polska

**INDUSTRY:** Conveyor Manufacturer for the Automotive Industry

**LOCATION:** Lezajsk, Poland

**NUMBER OF EMPLOYEES:** 350 employees both inside and outside

**CHALLENGE:** Increase capacity and quality

**SOLUTION:** Installed the Ring of Fire Thermal Processor

**RESULTS:** 1 operator can process all structural sections, twice as fast as the entire team using manual methods could previously produce

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Ring of Fire Fuels High Octane Production

The thrill of a sports car can be intoxicating. As the engine roars your hair stands on end, and the pure power and precision of the vehicle is in lockstep with the rush of adrenaline flowing through your veins. This is the thing dreams are made of.

When people daydream about this experience, the vehicles may be American classics; Mustangs, Corvettes and Camaros. For others, European engineering gets their blood pumping; be it Porsche, Lambourghini or Audi. These modern engineering masterpieces continue to impress car enthusiasts around the world. Paired with advanced research and development, innovative production processes are critical to continue their legacy of superior quality and efficiency.

Located in the historic town of Lezajsk, Poland, BMF Polska provides the tools necessary to make these vehicular masterpieces a reality. Famous for sophisticated production lines, these industry titans rely upon BMF’s expertise, and quality engineering to drive their manufacturing with state of the art conveyor systems. These conveyors are made using nothing but the very latest in structural technology, Peddinghaus’ very own Ring of Fire Thermal Processor.
Conveyor Production Comes Full Circle

BMF is no stranger to automation. Outside of automotive conveyor manufacturing, BMF is also responsible for the manufacture of chip conveyors, coolant filtration systems, automobile lifts, and even ATM machines. With such a diverse product line, lasers, press brakes, chip making machines, even plastic injection molding equipment has long been a part of production in Lezajsk.

Lean manufacturing is highly valued, and a critical eye is applied when any major machine purchase is made. Much of BMF’s previous equipment catered to these other product lines, and little automation was previously designated for the structural sections that are important for the automotive conveyor lines that BMF produces.

The game changed for the team at BMF upon being awarded the winning bid for a large installation of conveyor. This specific project for the Volkswagen group included thousands of tons of structural work, a short lead time, and countless complex components that could only be processed on a unique thermal processing machine.

Knowing that many more projects of this kind lay ahead, the team at BMF took a step into the future of fabrication and decided it was time to investigate modern structural automation. Every provider of structural machinery was thoroughly investigated, the machines were closely examined, and when the final decision was made the Ring of Fire was decided to be the ideal combination of precision, strength and speed.

Igniting Efficiency, the Ring of Fire Delivers Results

Before the addition of the Ring of Fire, structural processing was done 100% manually at BMF. Everything from block copes to bolt holes were done by hand. Not only did this present the opportunity for error, it was time consuming and costly. The addition of the Ring of Fire completely automated hole making, coping, and part marking for square / rectangular tubes, angle, beams, and channel. With the installation of the equipment, savings were immediately realized.

“The Ring of Fire came at the perfect time. It was just before a big project and we had plenty of time to rearrange things and train our operators on the machine for when production started. We now have one person running the Ring of Fire whereas before we had many people doing layout, drilling, and hand cutting. ” Dariusz Kuras, Production Manager stated, “With this one operator on the Ring of Fire, everyone else is busy with welding and fit up because we are processing structural sections twice as fast as before.”
With a single person running the Ring of Fire, all holes, copes, and length cuts are processed on structural sections to easily provide 100 tons per week of processed steel (on two 8 hour shifts). This tonnage is achieved processing a large amount of light material, with many complex cuts. The Ring of Fire maintains such a high piece by piece production rate that they had finished a full 2,000+ ton conveyor line for the Volkswagen group one entire month ahead of schedule, a record time!

Complemented by a 4 turbine Peddiblast shot blasting system, the Ring of Fire has proven that BMF can now pursue more aggressive projects, and maintain flexibility with a modest labor investment.

**In the Fast Lane to Success, BMF Does It All**

Armed with their Peddinghaus Ring of Fire, BMF can accommodate all of their production needs in one place, with a very low labor investment.

“We estimate that our production capacity could be maximized at around 10,000 tons annually. Our new Peddinghaus equipment is a key part of this process. We have even moved ahead and will soon receive a Peddinghaus HSFDB plate processor to complement this system” said Dariusz Kuras, “This will enhance our plate capabilities for heavy plate, and allow us to perform operations such as cutting, drilling, tapping, and milling on one station, further expanding our production capability.”

For further information on BMF and the markets they serve please visit http://www.bmf.de/ or http://www.bmf-polska.pl/.
FOR MORE INFORMATION

To learn more about Peddinghaus Corporation visit: www.peddinghaus.com

PRODUCT LIST:

- Beam Drill Lines
- Angle Masters
- Plate Processing
- Coping Machines
- Thermal Cutting
- Automated Layout Marking
- Structural Band Saws
- Ironworkers
- Material Handling